

jp2002525392/pn

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ACCESSION NUMBER: 2000-207082 [19] WPINDEX
DOC. NO. CPI: C2000-064099 [19]
TITLE: Increasing efficiency of surfactant e.g. in detergent,
food, cosmetics or technical application of
(micro)emulsion involves adding copolymer with
water-soluble and water-insoluble blocks
DERWENT CLASS: A12; A25; A97; D13; D21; D25; H01
INVENTOR: ALLGAIER J; JAKOBS B; RICHTER D; SOTTMANN T; STREY R;
WILLNER L
PATENT ASSIGNEE: (ALLG-I) ALLGAIER J; (KERJ-C) FORSCHUNGSZENTRUM JUELICH
GMBH; (JAKO-I) JAKOBS B; (RICH-I) RICHTER D; (SOTT-I)
SOTTMANN T; (STRE-I) STREY R; (WILL-I) WILLNER L
COUNTRY COUNT: 20

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 19839054	A1	20000302	(200019)*	DE	19[14]	C11D003-37
WO 2000012660	A2	20000309	(200020)	DE		C11D003-37
EP 1109883	A2	20010627	(200137)	DE		C11D003-37
JP 2002525392	W	20020813	(200267)	JA	39	C11D003-37 <-
US 6677293	B1	20040113	(200405)	EN		C11D003-37
US 20040054064	A1	20040318	(200421)	EN		C08L053-00
EP 1109883	B1	20041027	(200471)	DE		C11D003-37
DE 59910950	G	20041202	(200479)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19839054	A1	DE 1998-19839054	19980828
DE 59910950	G	DE 1999-59910950	19990826
EP 1109883	A2	EP 1999-953661	19990826
EP 1109883	B1	EP 1999-953661	19990826
DE 59910950	G	EP 1999-953661	19990826
WO 2000012660	A2	WO 1999-DE2748	19990826
EP 1109883	A2	WO 1999-DE2748	19990826
JP 2002525392	W	***WO 1999-DE2748	19990826***
US 6677293	B1	WO 1999-DE2748	19990826
US 20040054064	A1 Div Ex	WO 1999-DE2748	19990826
EP 1109883	B1	WO 1999-DE2748	19990826
DE 59910950	G	WO 1999-DE2748	19990826
JP 2002525392	W	***JP 2000-571065	19990826***
US 6677293	B1	US 2001-763413	20010611
US 20040054064	A1 Div Ex	US 2001-763413	20010611
US 20040054064	A1	US 2003-643491	20030819

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 59910950	G	EP 1109883 A
US 20040054064	A1	US 6677293 B
EP 1109883	A2	WO 2000012660 A
JP 2002525392	W	WO 2000012660 A

US 6677293 B1	Based on	WO 2000012660 A
EP 1109883 B1	Based on	WO 2000012660 A
DE 59910950 G	Based on	WO 2000012660 A

PRIORITY APPLN. INFO: DE 1998-19839054 19980828

INT. PATENT CLASSIF.:

MAIN: C08L053-00; C11D003-37
SECONDARY: A23L001-035; B01F017-42; B01F017-52; B01F017-56;
C08G081-00
ADDITIONAL: A61K007-00

BASIC ABSTRACT:

DE 19839054 A1 UPAB: 20050410

NOVELTY - In a method of increasing the efficiency of surfactants

by adding additive with a water-soluble and a water-insoluble part, the additive is an AB-block copolymer (IA) with a water-soluble block A and

a

water-insoluble block B.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for (a) a surfactant containing, as additive, an AB block copolymer (IB) with

a water-soluble block A and a water-insoluble block B, which is soluble in aliphatic hydrocarbons and mineral oils; (b) the use of (IB) as additive for a surfactant, laundry detergent, cosmetic or food.

USE - (IA) is used in mixtures of water, oil and surfactant in methods for (a) preventing lamellar phases, (b) stabilizing the temperature level of the one-phase region or (c) reducing the surface tension; or for increasing the structural size of emulsified liquid particles in microemulsions (all claimed). The AB block copolymers are useful in laundry detergents, food, cosmetics and all industrial or technical applications of (micro)emulsions, e.g. in conveying

petroleum,

in soil restoration and as reaction medium.

ADVANTAGE - The additive increases the efficiency of surfactants and, at the same time, suppresses lamellar mesophases, especially in (micro)emulsions, which cause optical anisotropy and increased viscosity

and is undesirable in e.g. detergents, as the lamellar mesophases cannot

be washed out. It also adds to the reduction in surface tension between water and oil and does not impair the temperature characteristics.

DESCRIPTION OF DRAWINGS - The drawing shows the temperature/surfactant concentration diagram for the mixture described in the example.

MANUAL CODE: CPI: A12-W12C; D03-H01N; D08-B13; D11-A03A; H01-D06